Swissvoice IP10S SIP Image Phone Distributor Guide

Abstract: This document presents step-by-step how to pre-configure the SwissVoice IP10S SIP image phone to work together with Quadro.

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1 Introduction

This User Guide offers step-by-step instructions for the configuration of a Swissvoice IP10S phone to work together with a Quadro.

2 Scenario

2.1 Objectives of the scenario

2.2 Abbreviations

- **DNS** Domain Name Server
- **DHCP** Dynamic Host Configuration Protocol
- **SIP** Session Initiation Protocol
- **TFTP** Trivial File Transfer Protocol
- **LAN** Local Area Network

2.3 Requirements and Preparations

2.3.1 Software

- Quadro software version 3.0.0 or higher.
- DHCP Server
- TFTP Server

2.3.2 Hardware

Quadro4x or Quadro16x.

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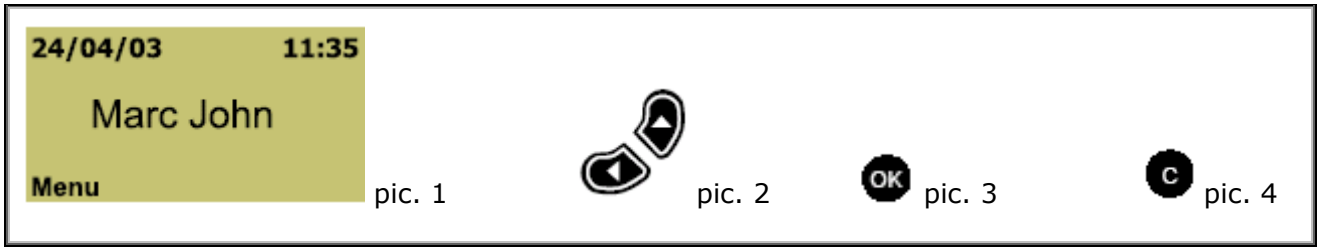
3 Configuration



3.1 Initial Configuration

The distributor needs to have a DHCP server and a TFTP server available.

1. Copy the *swupdate_ip10.inf* and *swissvoicesip.cfg* files into the TFTP's root directory. Note: See Appendix A for configuration files.
2. Configure the following parameters on the DHCP server.
   - Phone IP address range
   - Subnet mask
   - DNS address (DHCP option n°6)
   - Gateway address (DHCP option n°3)
   - TFTP server address (DHCP option n°66)
3. If necessary, restore the phone's factory settings by performing the following steps.
   - Disconnect the IP phone from the power socket or from the **LAN** if the power is supplied over it.
   - Press and hold keys **1 4 7**.
   - Power up the IP phone while holding down keys **1 4 7**.
   - When the message "Restore factory settings" is displayed, you may release the keys.

   The IP phone is restarting with its factory settings: Connect the phone to the local network and power it up via the main power or through the LAN.
4. Once the phone is powered up, the Swissvoice logo is displayed, followed by several messages announcing the various steps:
   - Looking for DHCP server…
   - Loading information file …
   - Starting… please wait…
   - Waiting for proxy server…
5. The phone will get its network configuration from the DHCP server, and will download configuration files from TFTP server. Then the idle screen is displayed. The phone is provisioned.

   Caution: The power supply must not be interrupted during the boot session. The phone could be damaged.

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3.2 End User Configuration

We assume that the end user has a Swissvoice IP10S phone with a proper SIP image. Also we assume that the end user has a Quadro with its LAN IP address set to 172.30.0.1. In that case he/she will only need to set the *username* and *password* from **IP Lines setting page** of Quadro via the phone keypad. For that he/she has to:

1. Select the **Menu** by pressing the OK (pic. 3) button on keypad to enter the menu. Then, using the Navigation buttons (pic. 2), go to the **Admin Settings-> Change Settings**, and enter the administrator password (by default "0000") and press OK. Then go to the **SIP Configuration** topic and fill **User Id** and **Authenticate login** subtopics with proper *username*, and **Authenticate passw** with proper *password* from **IP Lines Settings page**.
2. If Quadro's LAN IP address has been changed, the user has to either make the corresponding changes in the network and SIP configuration of the phone. To perform phone setup, see *SwissVoice IP10s User Guide*.

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4 Quadro Configuration

Quadro provides a possibility to connect MGCP and SIP phones to its LAN side, assign the corresponding IP line to some active extension and use MGCP and SIP phone as simple phone with all telephony services of the Quadro (e.g. call hold, waiting, transfer, etc.). 4 IP Lines are available on the Quadro4x models and 8 IP Lines are available on the Quadro16x models.

The **IP Line Settings** page is used to configure IP lines for IP phones to be connected to the Quadro.

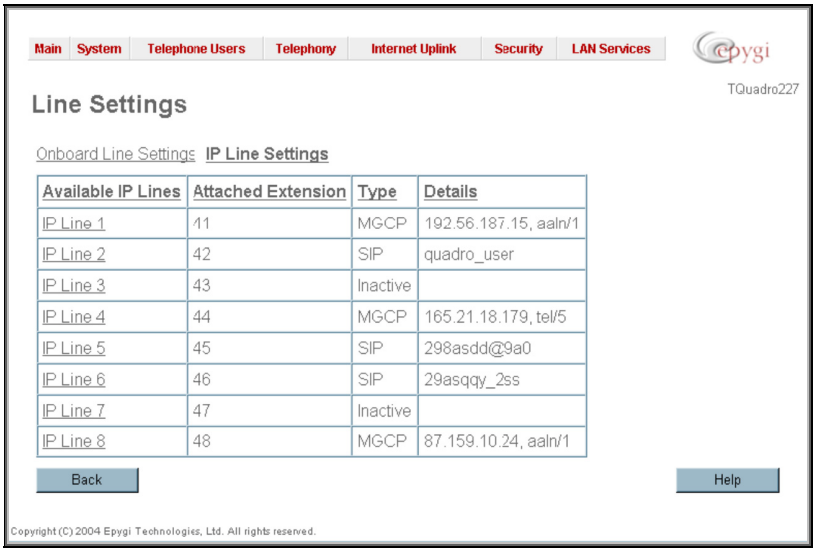
4.1 Configuring the IP Lines

The **IP Lines Settings** page can be found under the **Telephony** menu, menu item **Line Settings**.

The **IP Lines Settings page** lists all IP lines of the Quadro with additional information about the phone type and the configuration details for each of them.

The table may be sorted ascending or descending by clicking the column heading.

Pressing one of the **IP Line** links in the **IP Lines** column, the associated **Edit IP Line** page is opened and offers the following input options:

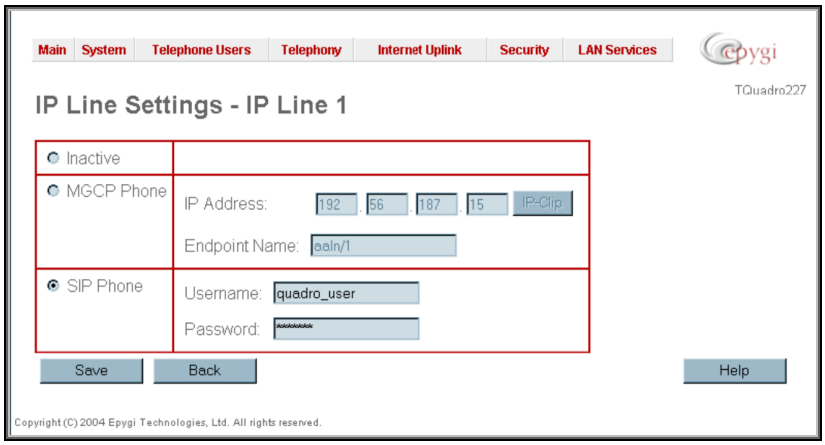


A group of manipulation radio buttons allows to enable the IP line and to configure it to be used by the SIP or MGCP phone:

Selecting **Inactive** disables the corresponding IP line.

Selecting M**GCP Phone** configures the IP line for MGCP phone to be connected to the Quadro's LAN. The MGCP phone's **IP Address** and its **Endpoint Name** will be required for this selection. The Endpoint Name is defined on the MGCP phone and should match on Quadro for the successful connection between the MGCP device and the Quadro.

Selecting SIP Phone configures the IP line for SIP phone to be connected to the Quadro's LAN. **Username** and **Password** are required to be inserted for this selection, which should match on both Quadro and SIP Phone for a successful connection establishment.



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5 Appendix A SwissVoice Config Files

5.1 File swupdate_ip10.inf

<CONFIG server=tftp>
swissvoicesip.cfg
</CONFIG>

5.2 File swissvoicesip.cfg

set sip transport udp
set sip udp_listen_port 5060
set sip tcp_listen_port 5060
set sip registrar_proxy on 172.30.0.1 5060
set sip auto_register on
set sip outbound_proxy on 172.30.0.1 5060
set rtp_prof dtmf_relay inb 101
set sip register_timeout 3600
set sip refer_timeout 3600
set utilities sntp_mode request
set utilities sntp_srv_ipaddr 172.30.0.01
set utilities sntp_rqnt_freq 1 0

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